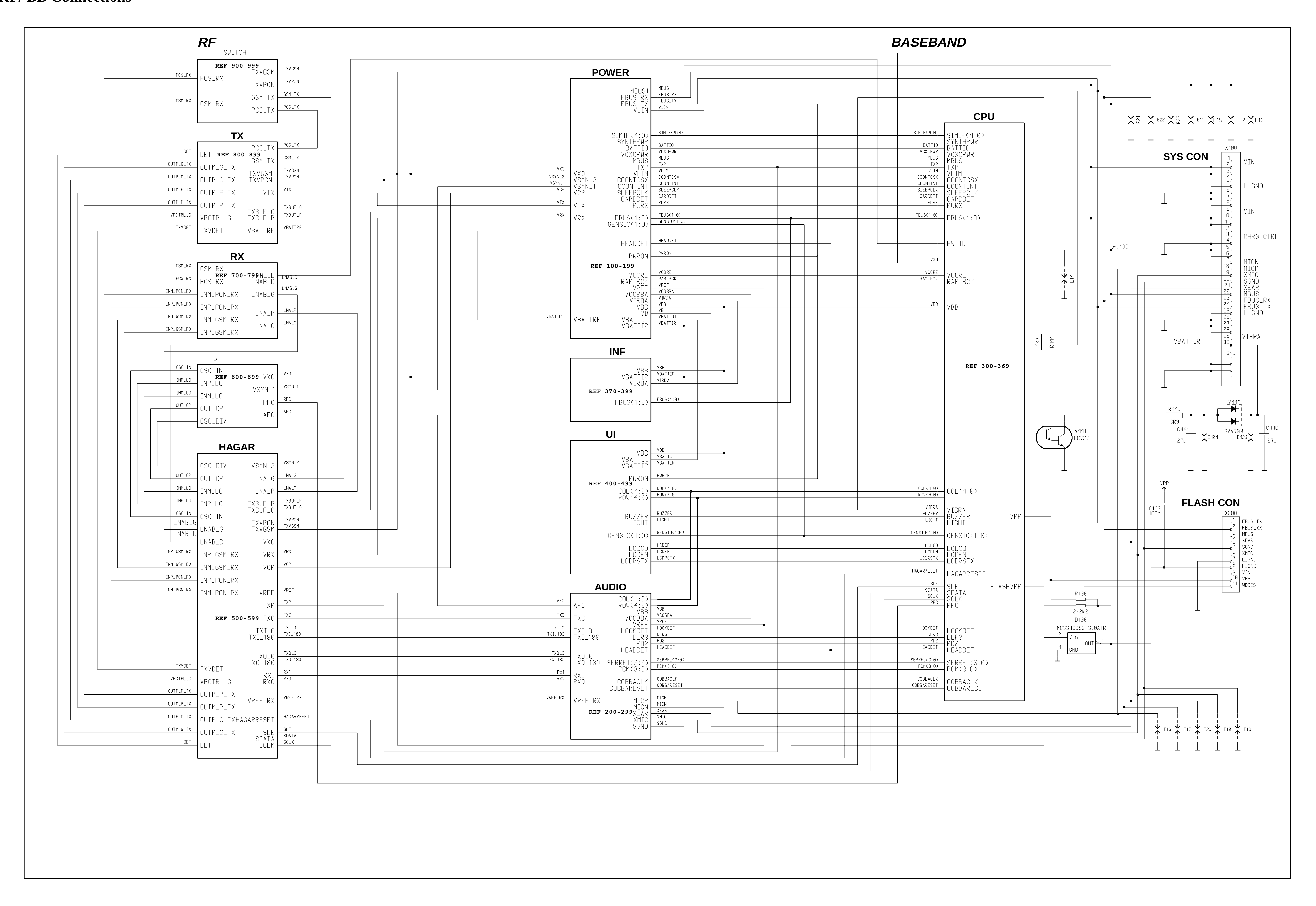
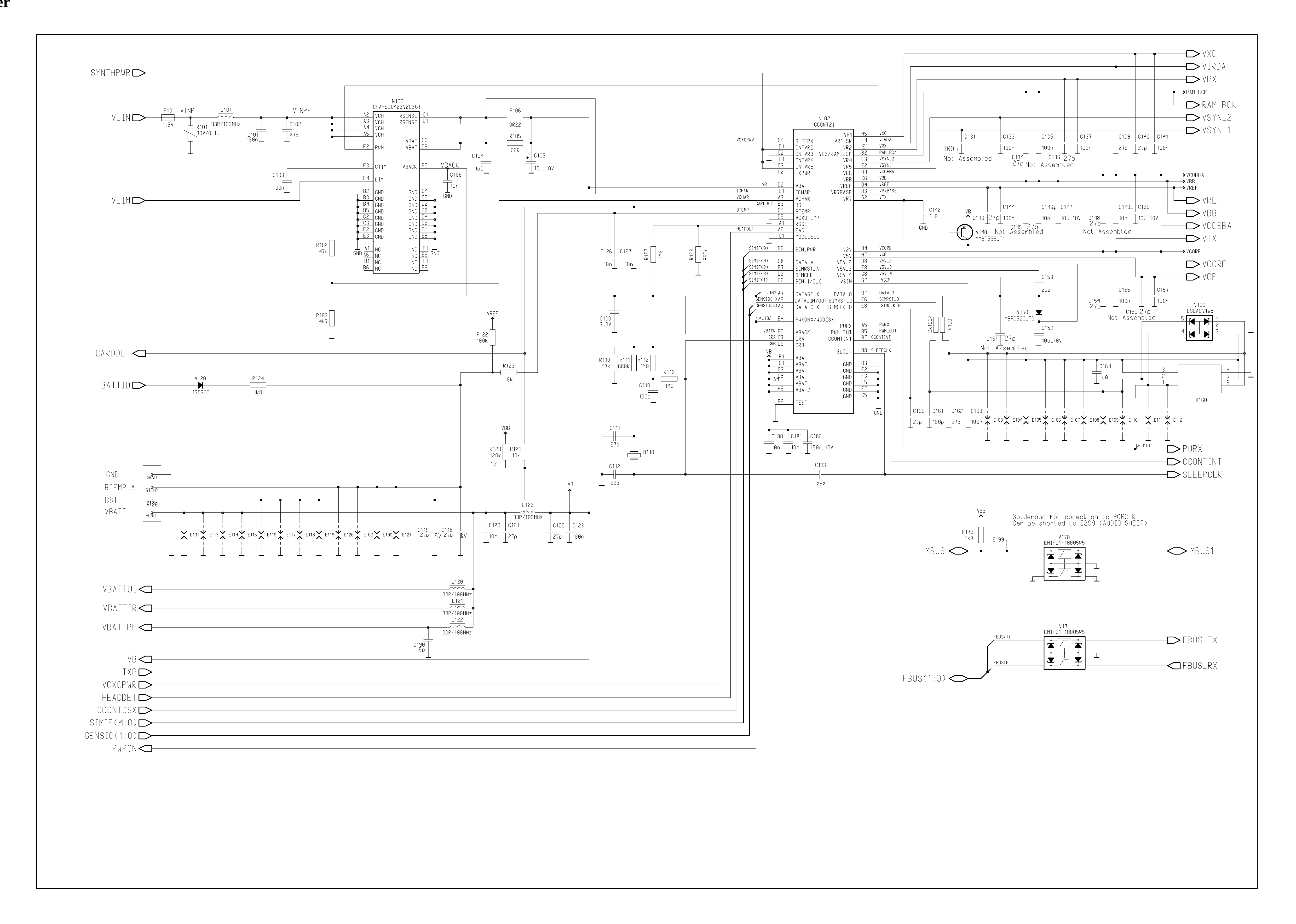
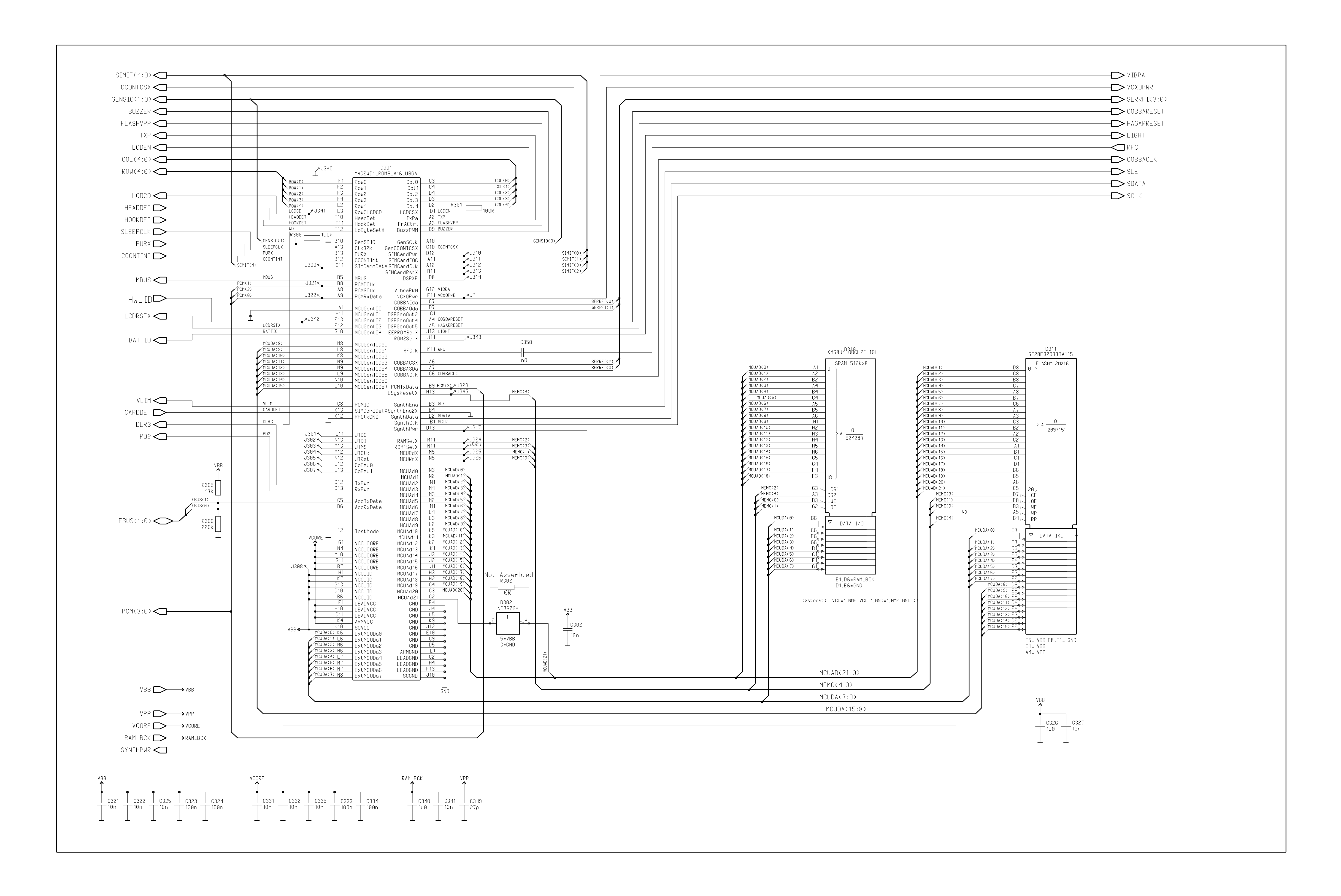
RF/ BB Connections



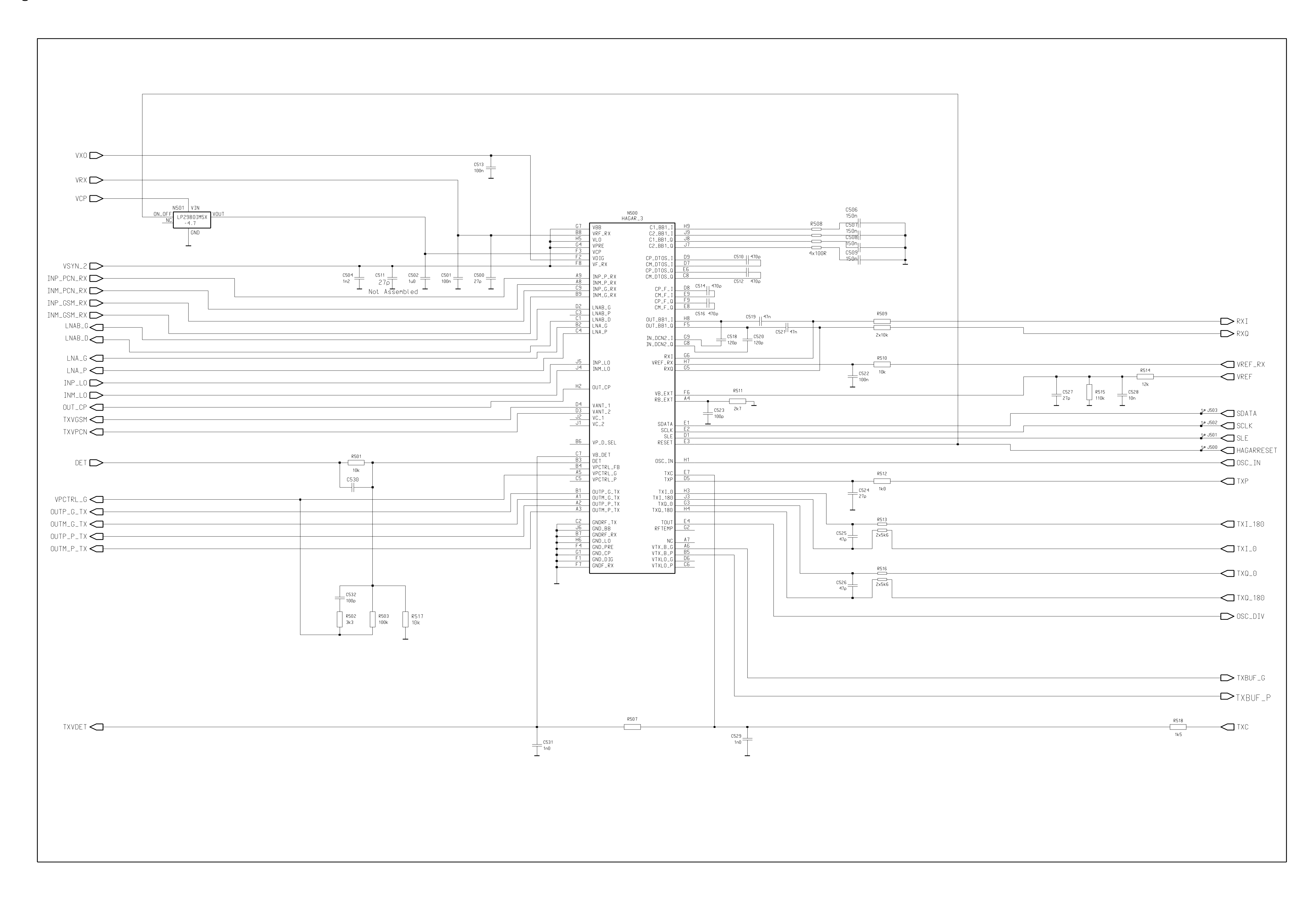
Power


SYNTHPWR
V_IN
VLIM
CARDDET
BATTIO
GND
BTEMP_A
BSI
VBATT
VBATTUI
VBATTIR
VBATTRF
VB
TXP
VCXOPWR
HEADDET
CCONTCSX
SIMIF(4:0)
GENSIO(1:0)
PWRON
N100
N102
CCONT2I
VXO
VIRDA
VRX
RAM_BCK
VSYN_2
VSYN_1
VREF
VBB
VCOBBA
VTX
VCORE
VCP
PURX
CCONTINT
SLEEPCLK
MBUS
MBUS1
FBUS(1:0)
FBUS_TX
FBUS_RX
Solderpad for conection to PCMCLK
Can be shorted to E299 (AUDIO SHEET)

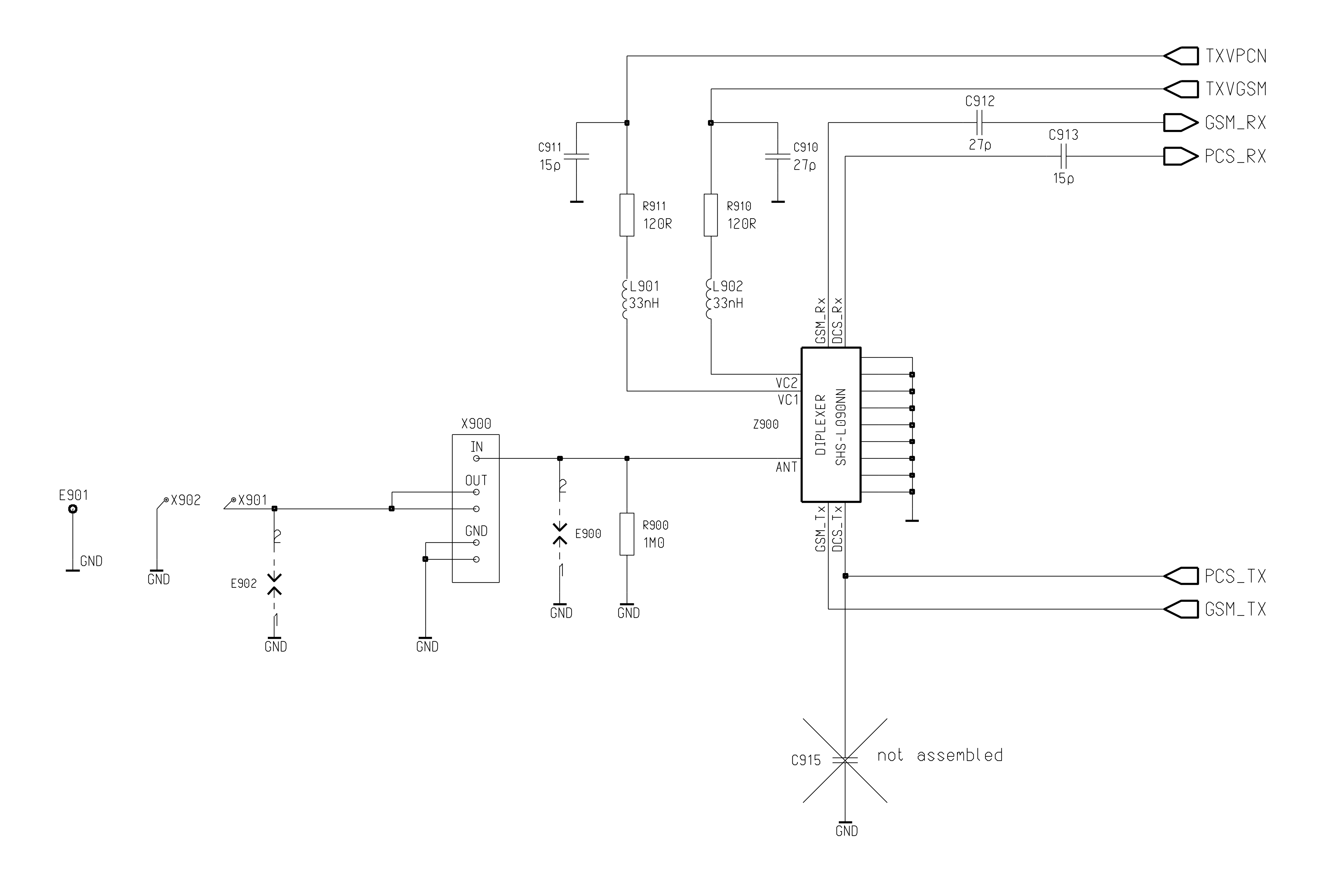
CPU


SIMIF(4:0)
CCONTCSX
GENSIO(1:0)
BUZZER
FLASHVPP
TXP
LCDEN
COL(4:0)
ROW(4:0)
LCDCD
HEADDET
HOOKDET
SLEEPCLK
PURX
CCONTINT
MBUS
HW_ID
LCDRSTX
BATTIO
VLIM
CARDDET
DLR3
PD2
FBUS(1:0)
PCM(3:0)
VBB
VPP
VCORE
RAM_BCK
SYNTHPWR
VIBRA
VCXOPWR
SERRFI(3:0)
COBBARESET
HAGARRESET
LIGHT
RFC
COBBACLK
SLE
SDATA
SCLK
D301
D302
NC7SZ04
Not Assembled
R302
0R
C350
1n0
C302
10n
MCUAD(21:0)
MEMC(4:0)
MCUDA(7:0)
MCUDA(15:8)
D311
FLASHM 2Mx16
DATA I/O
DATA IXO
C326
1u0
C327
10n
C321
C322
C325
C323
C324
C331
C332
C335
C333
C334
C340
C341
C349

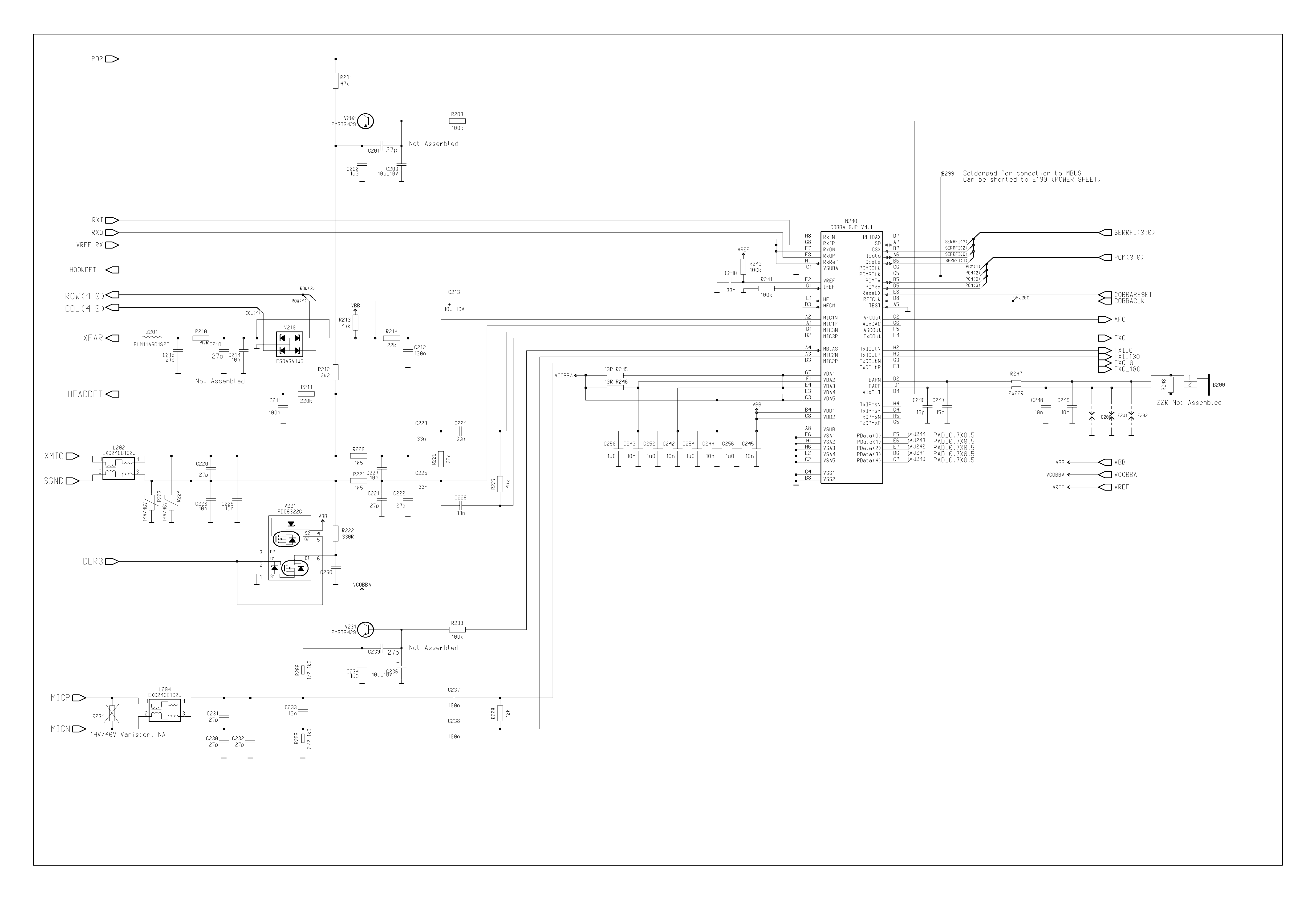
Hagar



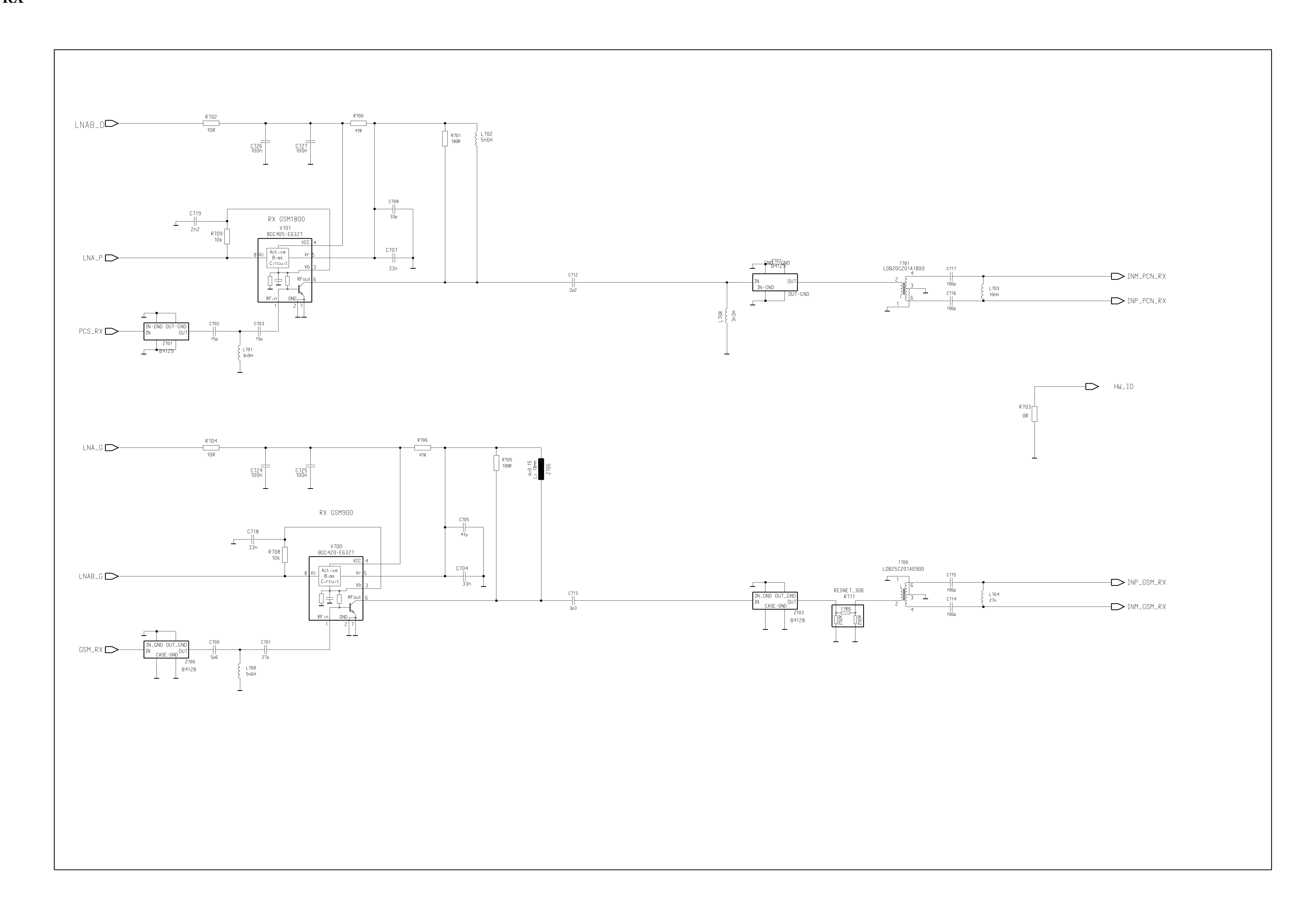
Switch


TXVPCN
TXVGSM
GSM_RX
PCS_RX
C912
27p
C913
15p
C911
15p
C910
27p
R911
120R
R910
120R
L901
33nH
L902
33nH
GSM_Rx
DCS_Rx
VC2
VC1
Z900
DIPLEXER
SHS-L090NN
ANT
GSM_Tx
DCS_Tx
X900
IN
OUT
GND
E901
GND
X902
GND
X901
E902
GND
GND
E900
GND
R900
1M0
GND
PCS_TX
GSM_TX
C915
not assembled
GND

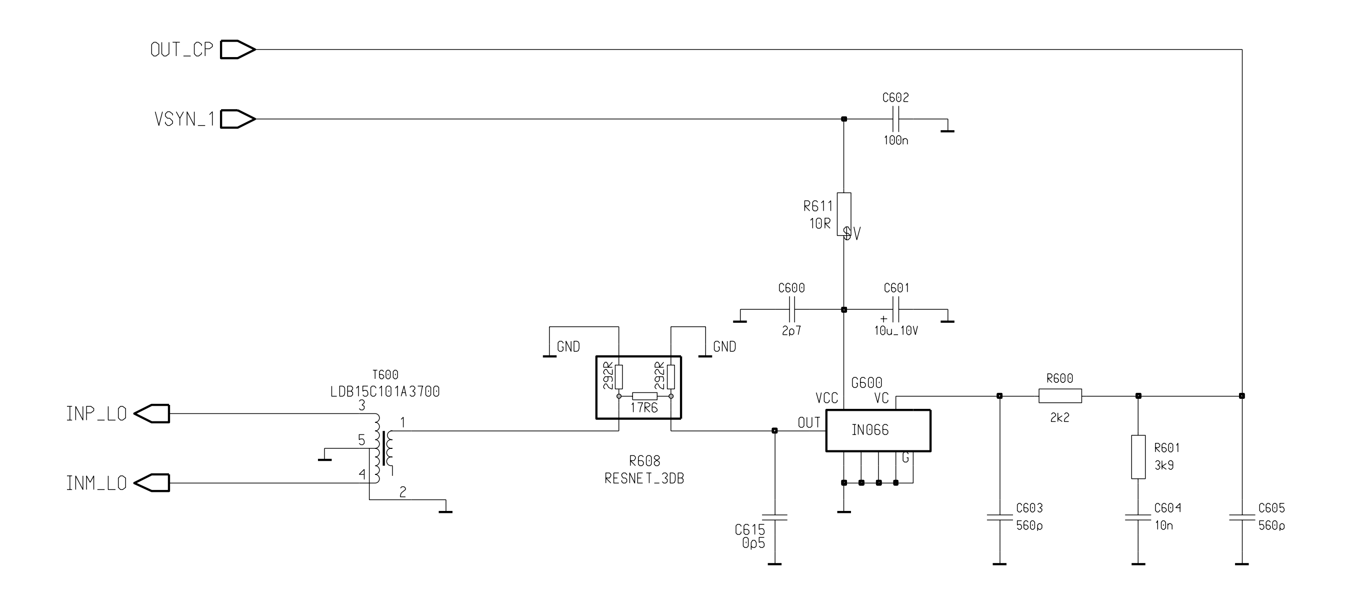
Audio

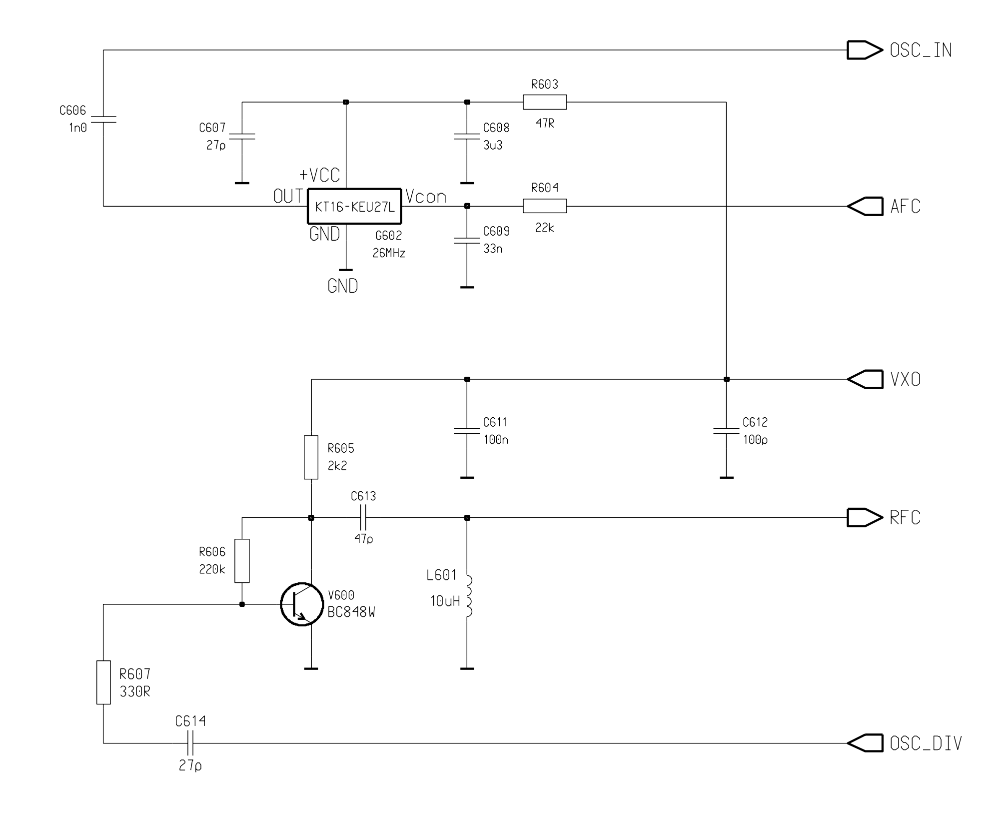


RX

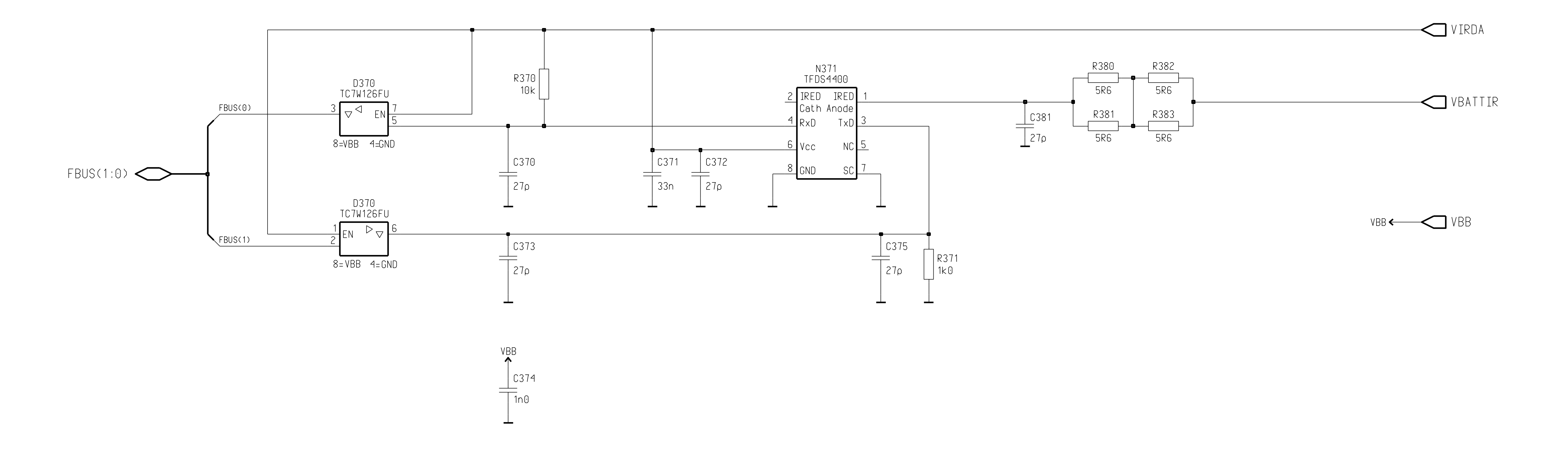

LNAB_D
R702
10R
C726
100n
C727
100n
R700
47R
R701
180R
L702
5n6H
C719
2n2
R709
10k
RX GSM1800
V701
BGC405-E6327
LNA_P
C708
33p
C707
33n
C712
2p2
Z702
B4129
L708
3n3H
T701
LDB20C201A1800
C717
100p
L703
10nH
C716
100p
INM_PCN_RX
INP_PCN_RX
PCS_RX
Z701
B4129
C702
15p
C703
15p
L701
3n9H
HW_ID
R703
0R
LNA_G
R704
10R
C724
100n
C725
100n
R706
47R
R705
100R
Z705
RX GSM900
C718
33n
R708
10k
V700
BGC420-E6327
LNAB_G
C705
47p
C704
33n
C713
3p3
Z703
B4128
RESNET_3DB
R711
T700
LDB25C201A0900
C715
100p
L704
27n
C714
100p
INP_GSM_RX
INM_GSM_RX
GSM_RX
Z700
B4128
C700
5p6
C701
27p
L700
5n6H

PLL

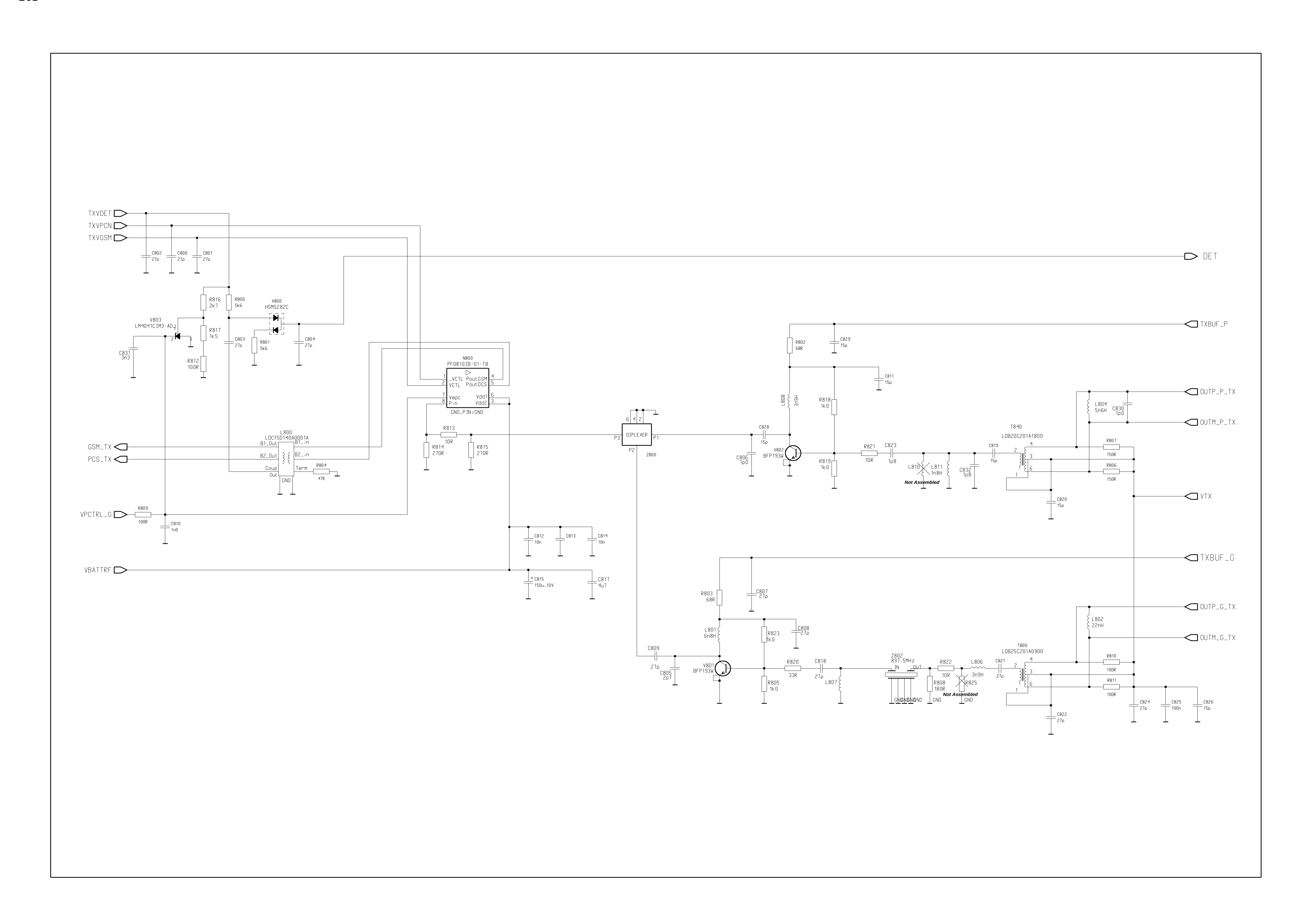

OUT_CP
VSYN_1
C602
100n
R611
10R
SV
C600
2p7
C601
10u_10V
GND
GND
292R
292R
17R6
R608
RESNET_3DB
T600
LDB15C101A3700
3
1
5
4
2
INP_LO
INM_LO
G600
VCC
VC
OUT
IN066
G
C615
0p5
R600
2k2
R601
3k9
C603
560p
C604
10n
C605
560p


OSC_IN
C606
1n0
C607
27p
C608
3u3
R603
47R
+VCC
OUT
KT16-KEU27L
Vcon
GND
G602
26MHz
GND
R604
22k
C609
33n
AFC
VXO
C611
100n
C612
100p
R605
2k2
C613
47p
RFC
R606
220k
V600
BC848W
L601
10uH
R607
330R
C614
27p
OSC_DIV

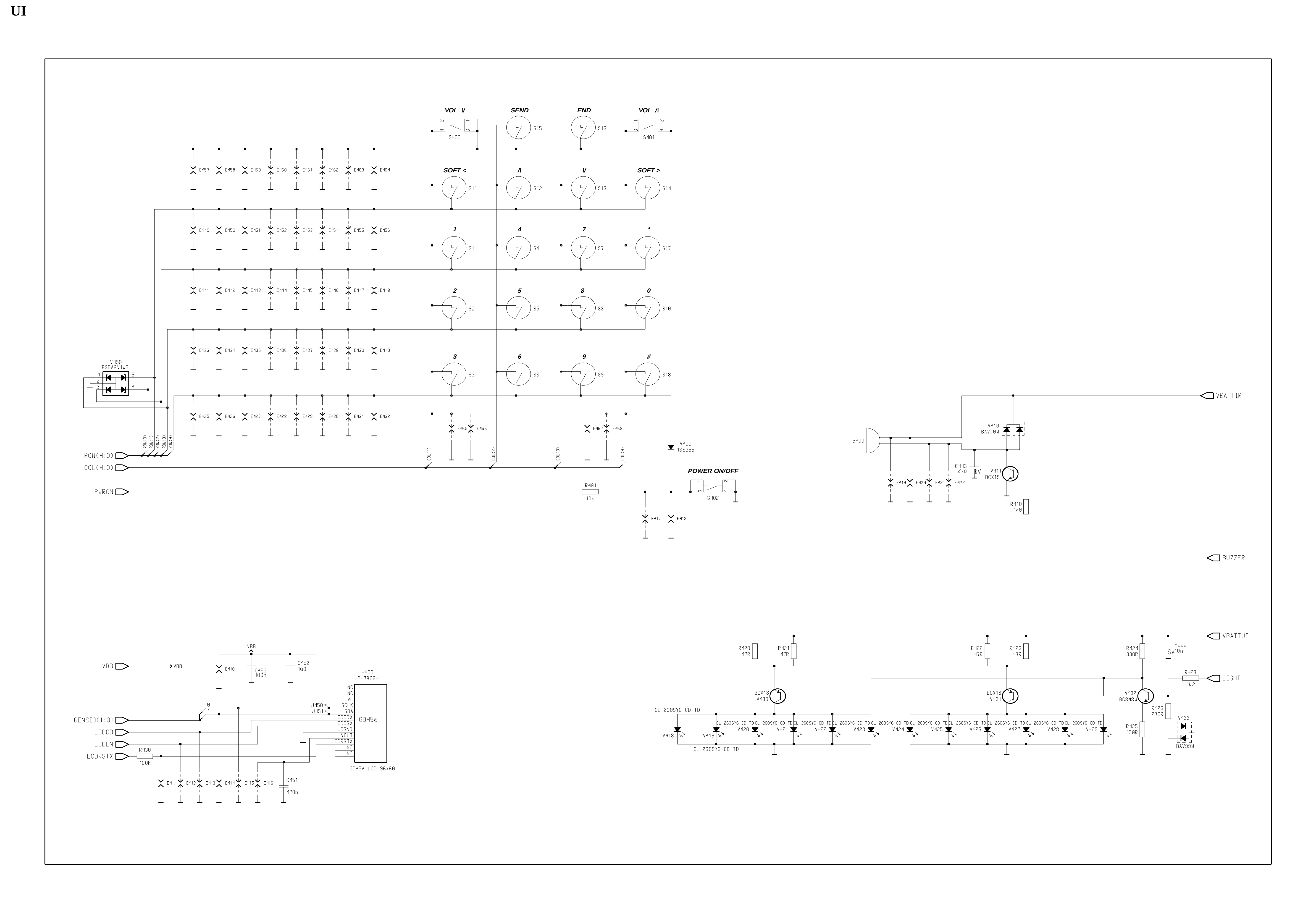
Infrared


VIRDA
VBATTIR
VBB
VBB
FBUS(1:0)
FBUS(0)
FBUS(1)
D370
TC7W126FU
8=VBB 4=GND
EN
R370
10k
N371
TFDS4400
IRED Cath
IRED Anode
RxD
TxD
Vcc
NC
GND
SC
C370
27p
C371
33n
C372
27p
C373
27p
C375
27p
R371
1k0
C374
1n0
C381
27p
R380
5R6
R381
5R6
R382
5R6
R383
5R6

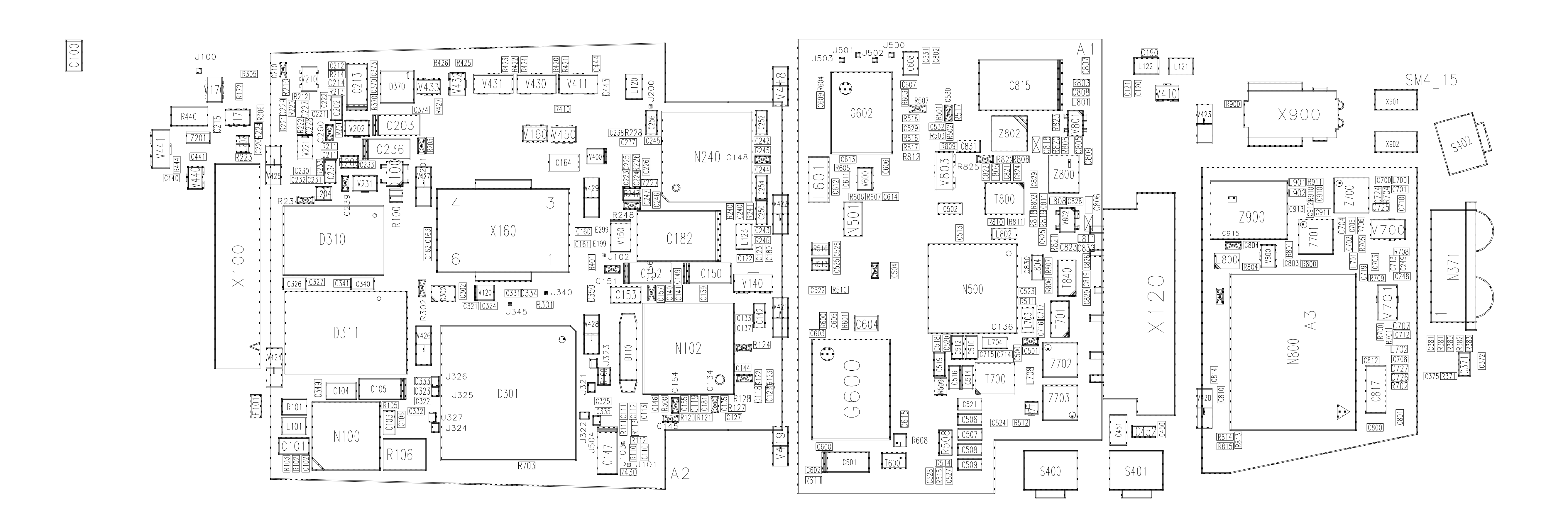
TX

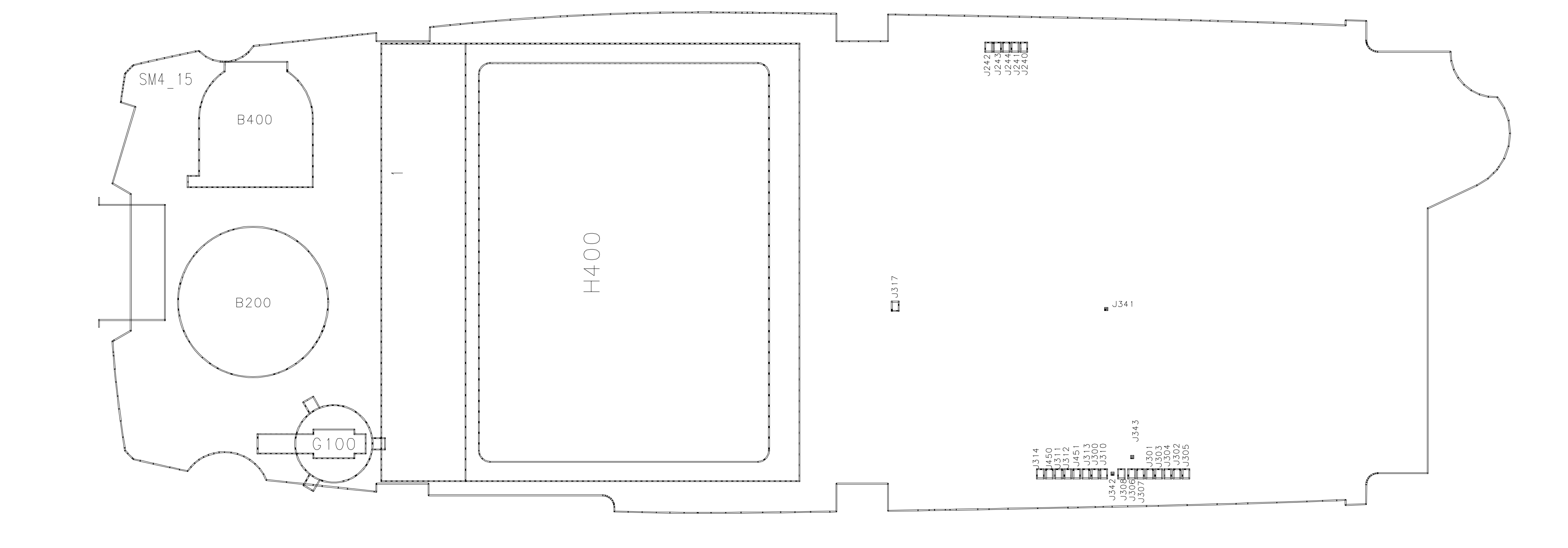

TXVDET
TXVPCN
TXVGSM
DET
TXBUF_P
OUTP_P_TX
OUTM_P_TX
VTX
TXBUF_G
OUTP_G_TX
OUTM_G_TX
GSM_TX
PCS_TX
VPCTRL_G
VBATTRF
N800
PF08103B-01-TB
L800
LDC15D140A0001A
DIPLEXER
Z800
V800
HSMS282C
V803
LM4041CIM3-ADJ
V802
BFP193W
V801
BFP193W
T840
LDB20C201A1800
T800
LDB25C201A0900
Z802
897.5MHz
Not Assembled

UI

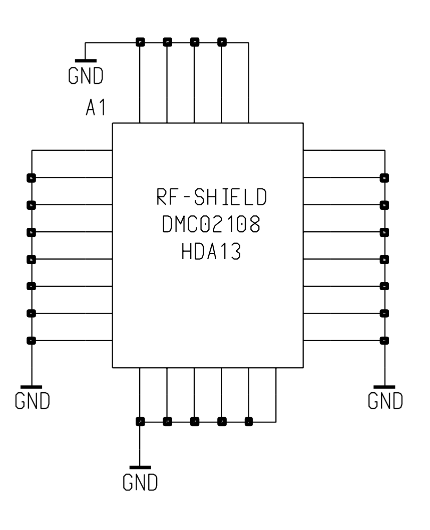

VOL \/
SEND
END
VOL /\
SOFT <
SOFT >
POWER ON/OFF
ROW(4:0)
COL(4:0)
PWRON
VBATTIR
BUZZER
VBATTUI
LIGHT
VBB
GENSIO(1:0)
LCDCD
LCDEN
LCDRSTX
GD45A LCD 96x60

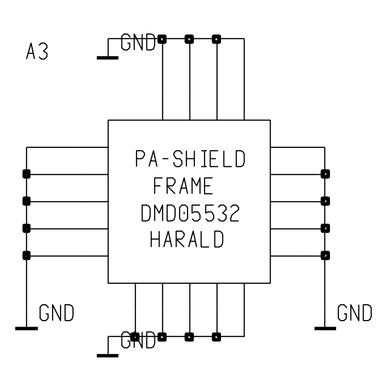
Layouts

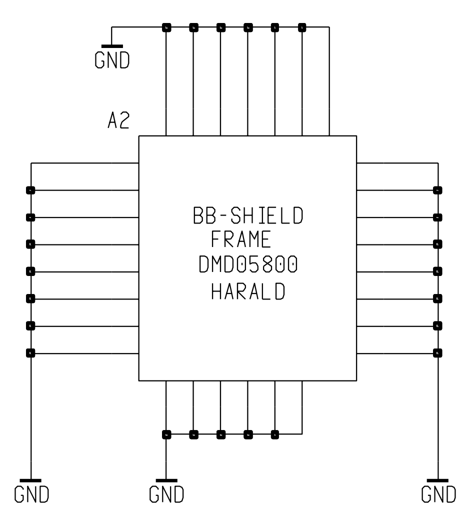

X100
D310
D311
N100
R106
X160
D301
N102
C182
C150
N240
G602
L601
N501
G600
C604
N500
C815
Z802
Z800
T800
T700
Z702
Z703
T840
T701
S400
S401
X120
X900
S402
Z900
Z701
Z700
V700
N800
A3
V701
C817
N371
SM4_15
A1
A2

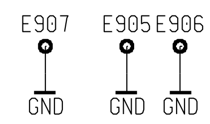

SM4_15
B400
B200
G100
H400
1

Shields


GND
A1
RF-SHIELD
DMC02108
HDA13
GND
GND
GND


A3
GND
PA-SHIELD
FRAME
DMD05532
HARALD
GND
GND
GND


GND
A2
BB-SHIELD
FRAME
DMD05800
HARALD
GND
GND
GND


E907
E905
E906
GND
GND
GND